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ISSN: 0740-2759

DECEMBER 1986



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Subscriptions to **ENERGY** are provided as a benefit of membership in one of the clubs constituting the Consortium. For information about joining one of the clubs, refer to the club data section of this issue or write to the club in care of the Consortium at the address above. Individual copies of **ENERGY** can also be purchased at many greater Lansing area locations.

Please check the mailing label on each issue of **ENERGY** that you receive. Notify your club officers if your address changes. The date on the **ENERGY** mailing label is a reminder of your current membership term.

ABOUT THE MICHIGAN COMPUTER CONSORTIUM

The Michigan Computer Consortium was formed in 1983 to sponsor joint activities involving member clubs. Current members of MC² are:

AppleLUG	Apple Lansing Users Group
CCUG	Color Computer Users Group
CHAOS	Capitol Hill Atari Owners Society
M ³ G	Mid-Michigan Microcomputer Group
UPCO	Users Personal Computer Organization

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ADVERTISING

Your advertisement in **ENERGY** will reach over 500 active computer users in the greater Lansing area. Four sizes of ads are available, with discounts provided for multi-issue contracts. Camera-ready ad copy is generally needed by the 15th of the month preceding publication. Limited graphics artwork is available at an extra charge. For more information, contact the Advertising Manager listed above.

ARTICLE SUBMISSIONS

Members are strongly encouraged to submit articles. Contact your club's Editorial Board representative. We generally use compressed mode printer copy with 3.5 inch columns and 8 lines per inch. Deadline for articles is the 15th of the month preceding publication.

OUR COVER ARTIST

This month's cover is courtesy of Ginny Werner, who is a member of M³G and UPCO.

NOVEMBER 1986
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CONSORTIUM CALENDAR

DECEMBER 1986

JANUARY 1987
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 4 5 6 7 8 9 10
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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 M3G EXEC	2 LACC	3	4 CMARC	5 CCUG
7	8 TI USERS GROUP ACM	9 HEATH SIG	10	11	12	13
14 AMIG ENERGY meeting	15 M3G	16	17 CP/M SIG	18	19 CHAOS APPLE LUG	20
21 CMTUG	22 UPCO (IBM PC)	23	24 Christmas	25	26 Hanukkah	27
28	29	30 New Year's Eve	31			

LANSING AREA COMPUTER CLUBS

ACM (Association for Computing Machinery)
 Meets monthly. Contact Lew Crippen 377-6636 (days)
 371-3179 (evenings); Mary Dike or Walt Davis 377-6636
 (days)

AMIG (Amiga Mutual Interest Group)
 Meets Third Monday, 7:30 PM; 255 Physics-Astronomy
 Building, MSU. Contact Ray Ettinger, 646-6503.

ASM (Association for Systems Management)
 Meets monthly. Contact Richard Olson, CSP, at 323-7000
 ext. 289 (days).

Apple L.U.G. (Lansing Users Group) (MC2)
 Meets 3rd Saturday, 9:30 AM; 102 South Kedzie Hall,
 MSU, East Lansing. Contact PO Box 27144, Lansing, MI
 48909; Gary G. Martin 394-0115 after 6 PM.

CAPKUG (Capitol Area Kaypro Users Group)
 Meets monthly. Contact C. Stewart, 5731 Haverhill,
 Lansing, MI 48911; 882-7821.

CCUG (Greater Lansing Color Computer Users Group) (MC2)
 Meets First Saturday, 1:00 PM; East Lansing Public
 Library, 950 Abbott, E.L. Contact PO Box 14114,
 Lansing, MI 48901; Dale Knepper (president) 626-6917.

CHAOS (Capitol Hill Atari Owners Society) (MC2)
 Meets 3rd Saturday 10:00 AM; 118 Physics-Astronomy
 Bldg., MSU, East Lansing. Contact PO Box 16132,
 Lansing, MI 48901; Leo Sell (president) 393-7792.

CHAOS STING (ST Interest Group)
 Meets 2nd Saturday, 10 AM; 118 Physics-Astronomy Bldg.

CMARC (Central Michigan Amateur Radio Club)
 Meets 1st Friday, 8:00 PM; American Red Cross Bldg.,
 1800 E. Grand River, Lansing. Contact PO Box 10073,
 Lansing, MI 48901

Comp Klub of Lansing (TI Users Group)
 Meets 2nd Tuesday, 7:00 PM; Computer Consignments, 5501
 S. Cedar, Lansing. Contact John Hayes 882-7860.

The Commodore Club (of St. Johns)
 Meets Every Tuesday night, 7-10 PM. Contact David
 Smalldon 224-4678, evenings.

DECUS GLLUG (DEC Users Greater Lansing Local Users Group)
 Meets Approximately every 2 months at a local DEC user.
 Contact C. M. Watson (secretary) 483-1111 (days).

DRUG (DEC Rainbow Users Group)
 Contact Jeffrey Weihl 353-3717 (days) 349-6967
 (evenings).

LACC (Lansing Area Commodore Club)
 Meets First Wednesday, 7:00 PM; All Saints Episcopal
 Church, 800 Abbott, E.L. Contact PO Box 1065, East
 Lansing, MI 48823; Mike Boyce (president) 337-0454.

LAMALUG (Lansing Area Mac and Lisa User Group)
 Meets monthly on different day in first week, 7:00 PM,
 at Computer Consignments, 5501 S. Cedar, Lansing.
 Contact Dick McCarrick at Computer Consignments,
 394-4408; or Charles Winters 787-5731.

M3G (Mid-Michigan Microcomputer Group) (MC2)
 Meets Third Tuesday, 7:00 PM; Foster Community Center,
 200 N. Foster, Lansing. Contact PO Box 1302, East
 Lansing, MI 48823; Warren Wolfe (president) 337-7672.
 Executive Meetings First Tuesday, 7:30 PM; Beggar's
 Banquet, 218 Abbott, East Lansing.

M3G CMTUG (Central Mich. TRS-80 Users Group) SIG (MC2)
 Meets Third Sunday, 4:00 PM, DeWitt Memorial Building,
 206 N. Washington, DeWitt. Contact Lee Hodges
 669-3258

M3G CP/M SIG (MC2)
 Meets Last Thursday, 7:30 PM; Foster Community Center,
 200 N. Foster, Lansing. Contact Tim Childs 321-4072.

M3G Heath/Zenith SIG (MC2)
 Meets 2nd Wednesday, 7:30 PM; All Saints Episcopal
 Church, 800 Abbott, E.L. Contact Tom Trana, 351-8455.

M3G Osborne SIG (MC2)
 Contact Larry Tirone 484-3921.

MSU MUG (MSU & Capitol Area Macintosh Users Group)
 Meets Monthly during MSU school year. Contact John
 Sykes 332-6720.

U.P.C.O. (Users' Personal Computer Organization--IBM PC group)
 Meets 4th Tuesday, 7:30 PM; 116 Ag. Engineering Bldg.,
 MSU. Contact Skip Osterhus 321-3425.

Clubs designated (MC2) are members of the Michigan Computer
 Consortium.

This listing is as accurate as the information we receive.
 To list an event or update information, contact Joe Werner
 at (517) 337-7415.

The Michigan Computer Consortium would like to recognize the following clubs for currently being responsible for the monthly production of ENERGY. (Check the CALENDAR page for other club meetings.)

Apple LUG Mailing address: APPLE L.U.G.
 P. O. Box 27144
 Lansing, MI 48909-7144

WHO: APPLE II and compatible owners/users in mid-Michigan.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

Contact person: Gary Martin

WHEN: Meetings are 3rd Saturday of the month at 9:30 a.m.

phone: 517-394-0115
(after 6:00 p.m.)

WHERE: Room 102, South Kedzie Hall on the MSU campus. The NW corner of Farm Lane and Auditorium roads.

EXTRA: Public-domain/ShareWare library, ENERGY newsletter, tutorials, and special interest groups (SIG's).

HOW MUCH: Dues are \$12.00 a calendar year or \$1.00/mo prorated.

CCUG Mailing address: CCUG
 P. O. Box 14114
 Lansing, MI 48901

WHO: An organization devoted to Color computer and MC6809.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

Contact person: Dale Knepper

WHEN: Meetings are 1st Saturday of the month at 1:00 p.m.

phone: 517-626-6917

WHERE: East Lansing Public Library
 950 Abbott, East Lansing, MI

EXTRA: Public-domain library, ENERGY newsletter.

HOW MUCH: Dues are \$12.00 a calendar year or \$6.00 under age 18.

M3G Mailing address: M3G
 P. O. Box 1032
 Lansing, MI 48823

WHO: Open to general computer interests of all types.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

Contact person: Warren Wolfe

WHEN: Meetings are 3rd Tuesday of the month at 7:00 p.m.

phone: 517-337-7672

WHERE: Foster Community Center
 200 North Foster, Lansing, MI

EXTRA: Public-domain library, ENERGY newsletter, and special interest groups (SIG's).

HOW MUCH: Dues are \$12.00 a calendar year.

UPCO Mailing address: Skip Osterhus
 219 Schooner
 Lansing, MI 48917

WHO: IBM and compatibles owners/users in mid-Michigan.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

Contact person: Skip Osterhus

WHEN: Meetings are 4th Tuesday of the month at 7:30 p.m.

phone: 517-321-3425

WHERE: Room 116, Ag Engineering building on the MSU campus located on the SE corner of Shaw and Farm Lane.

EXTRA: Public-domain/ShareWare library, ENERGY and EXCHANGE newsletters, club bulleting board.

HOW MUCH: Dues are \$5.00 per person per 12 months.

THE USER

by Joe Werner

There are times when it is difficult to keep the time of year straight. Here it is mid-November, not even Thanksgiving yet, and I have to keep reminding myself that you'll be reading this as the Holiday season approaches. (Hope your Thanksgiving was happy.)

Anyway, this season brings with it a lot of excitement. When I was younger, I always looked forward to the Lionel train displays at the local department stores. I haven't seen a good display in years, but that's all right. Lately, I've gotten a similar feeling by wandering into my favorite neighborhood Computer Store.

Lots of us hope to find computers, accessories, or software under our Christmas tree (or Hanukkah bush, or Solstice plant, or whatever). Systems will range from the Radio Shack Model 102 portable or Color Computer, to the Commodore 64 or 128, to an Amiga or Atari ST, an Apple IIGS or Macintosh, or the latest gee-whiz from IBM and the Clones. Software will range from the latest arcade-style game to an Expert System generator. And at least some of us are wishing for a disk drive, modem, or printer. (Make mine a Laser printer! I can dream too, can't I?)

If you're looking for advice as to what to get, I'd suggest that you check out your friendly local computer retailer. He or she will be happy to show you what's new. But I would like to remind you that YOU can be a big help to your friends and neighbors who may be plunging into computers for the first time. Your recommendations, as an "experienced" hobbyist and user, will be valued. Your help can get them off to a good start.

One way you can help your friends and your User Groups at the same time is to share this copy of ENERGY with the new computer enthusiasts you know. Make sure they see the list of computer clubs in the front. Even if you have an IBM PC and your friend has an Amiga, the club list will point your friend in the direction of like-minded enthusiasts. All the clubs welcome visitors, and any of the club contacts listed would be happy to pass along more information.

To wrap up this year, let me add a personal wish. For many of us, this is first and foremost a Holy time. Allow me to wish you and yours every blessing of the season. For all of us, I hope this is a time of sharing joy and goodwill. And may the New Year be filled with peace, love, and joy, for you and yours. Thanks for reading. See you next year.

COMPUTER SHOWS

by Ginny Werner

One of the things that Joe and I do is go to computer shows. I bet there is a computer show going on just about every week somewhere in this country. Of course they are not all labeled "Computer Show", some of them are labeled "User's Group Meeting", or "Hamfest", or "Swap 'N Shop", etc.

Each show is designed to attract a specific group. PC Expo is devoted to the people who use IBM PCs and the various clones. AutoFact is devoted to people interested in automated factories. Hamfests are devoted to people who are amateur radio enthusiasts, but a surprising amount of computer related stuff shows up too.

Shows that are held in very large places like Cobo Hall and McCormick Place tend to be exhausting. You may spend six to eight hours walking around on concrete floors and still not see everything. You are also likely to pick up a lot of literature on various and sundry computer products. You will also probably get a few freebies (Joe and I picked up little fiber-optic flashlights at the last AutoFact). If you ever go to a show in one of these places be sure to wear comfortable shoes. I also recommend taking something to carry the literature you will pick up (try carrying ten pounds of something in a shopping bag with plastic handles). These shows are usually very interesting because manufacturers tend to announce new products at them. Many of these shows are associated with a conference, but you will have to pay extra money to get into any of the sessions.

Shows that are held in smaller places like the Clarion and the Armory, naturally do not have as many things to see. However, you can usually get a good close up look at things that are there. You can also usually pick up good bargains on things such as disks. Many smaller shows also have free seminars.

You should plan carefully before you go to a show. If you are going to one of the bigger shows, you will probably want to dress in business attire. You can usually dress more casually for the smaller shows. If you plan on being at a show all day consider what you want to do about lunch. Most places sell some kind of food but it is almost always expensive and usually consists of hot dogs or sandwiches (I almost always take a pocket full of crackers). For the larger shows you may want to think about what you are specifically interested in. That way you can pay attention to those booths first and go back and see the rest of it if you have time.

Have fun!

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JACK MCGINNIS
STORE MANAGER

Product Review
By Tim D. Childs

The Datasouth DS220 Printer

For the last month, I have had the use of a DATASOUTH DS220 printer, courtesy of MCD Corp. of Detroit. The DS220 is a high speed dot matrix printer designed for high volume data processing applications. It features a nine wire printhead, front panel selection of all features, either front or bottom paper feed, and both Centronics parallel and RS 232 serial interfaces.

The printer has several different fonts built into it. In draft mode, its print looks like any other dot matrix printer, and rated throughput is 220 characters per second (cps). In "NLQ", or Near Letter Quality mode, the print head make two passes over each line, filling in between the dots. While the print quality isn't that of a Diablo or a Selectric, it is one of the best NLQs I've seen. Unlike most other printers, the DS220 is capable of printing in NLQ mode with only two passes on a line. The others usually print both passes in the same direction, necessitating a non-printing carriage motion. While I haven't timed them, the Datasouth appears faster in NLQ than the Epson LX90 is in draft.

The DS220 also has a "Memo" mode. This is better than draft but not as good as NLQ, and is in between speed-wise. In this mode, each character contains more dots, but only one pass is made on each line. All modes print bi-directionally.

In addition, there are built in fonts to do several different bar codes, as well as OCR (Optical Character Reader). If you don't like what it has to offer, you can down-load your own font codes, or control each print wire individually to print graphics. The DS220 can emulate EPSON and Diablo control codes, so it's compatible with just about everything. (I can print graphs from SuperCalc with no special setup.)

The DS220 is not a throw-away printer. It is a heavy duty, rugged peripheral designed for constant use. It weighs in at 35 lbs, and occupies 16" by 24" of table space. At \$1600.00 retail, this is not your typical home printer. DATASOUTH has been in the printer business for a long time and has an excellent reputation for support of its products. For anyone with heavy duty printing needs, the DS220 is worthy of consideration.



**We wish you
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in this
Holiday Season
and throughout
the New Year**

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IMPURE MATHEMATICS

[I first saw a version of this back in the 60s. The original author and source are unknown. This version is reprinted from the Mid-Michigan Atari Magazine for October, 1986. -- JWW]

IMPURE MATHEMATICS - Wherein it is related how that Polygon of Womanly Virtue, young Polly Nomial (our heroine) is accosted by that Notorious Villain Curly Pi, and factored (oh, horrors!).

Once upon a time (1/T) Pretty Polly Nomial was strolling across a field of vectors when she came to the boundary of a singularly large matrix. Now Polly was convergent, and her mother had made it an absolute condition that she never enter such an array with undefined variables. However, Polly was irregular that morning and was feeling especially badly behaved. She ignored her mother's condition on the basis that it was insufficient, and made her way amongst the complex elements. Rows and columns closed in from all sides. Tangents approached her surface. She became tensor and tensor. Quite suddenly, two branches of a hyperbola touched her at a single point. She oscillated violently, lost all sense of directrix, and went completely divergent. As she reached a turning point, she tripped over a square root that was protruding from the erf and plunged headlong down a steep gradient. When she rounded off once more, she found herself inverted, apparently alone, in a non-euclidian space.

She was being watched, however. That smooth operator, Curly Pi, was lurking innerproduct. As his eyes devoured her curvilinear coordinates, a singular expression crossed his face. He wondered, was she still convergent? He decided to integrate improperly at once.

Hearing a common fraction behind her, Polly rotated and saw Curly Pi approaching with his power series extrapolated. She could see at once by his degenerate conic and dissipative terms that he was bent on no good.

"Arcsin!" she gasped, covering her vertices.

"Ho, Ho," he said. "What a symmetric little asymptote you have. I can see your angles have lots of secs."

"Oh, Sir," she protested, "Keep away from me. I haven't got my brackets on."

"Calm yourself, my dear," said our suave operator. "Your fears are purely imaginary."

"i, i," she thought. "Perhaps he's not normal, but

homologous."

"What order are you???" the brute demanded.

"Seventeen," replied Polly.

Curly leered, "I suppose you've never been operated on."

"Of course not," Polly replied quite properly. "I'm absolutely convergent."

"Come, come," said Curly. "Let's off to a decimal place I know and I'll take you to the limit."

"NEVER!!!" gasped Polly.

"Abcissa!!!" he swore as he undertook his plot, his patience gone. Coshing her over the coefficient with a natural log until she was powerless, Curly removed her discontinuities. He stared at her significant places, and began smoothing out her points of inflection. Poor Polly. The algorithmic method was now her only hope. She felt his hand tending toward her asymptotic limit. Her convergence would soon be gone forever.

There was no mercy, for Curly was a heavyside operator. Curly's radius squared itself; Polly's loci quivered. He integrated her by parts. He integrated her by partial fractions. After he cofactored, he performed Runge-Kutta on her. The complex beast even went all the way around and did a contour integration. Curly went on operating until he had satisfied her hypothesis. Then, he exponentiated and became completely orthogonal.

When Polly got home that night, her mother noticed that she was no longer piecewise continuous, but had been truncated in several places. But it was too late to differentiate now. As the months went by, Polly's denominator increased monotonically. Finally, she went to the L'Hopital and generated a small but pathological function which left surds all over the place and drove Polly to deviation.

The moral of our sad story is this: "If you want to keep your expressions convergent, never allow them a single degree of freedom."



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Notes on Program Design

One of the nice things about micro-computers is that you're never without software. Somewhere, there is someone with a computer just like yours, and he wants to share his programs with you. This has led to what we today call the Public Domain. Many (every??) clubs maintain large libraries of programs which users have written and contributed. They're there free for the taking. Use at your own risk.

Now I shouldn't complain about something that's free, and I realize that you get what you pay for, but I'd like to pass along a few of my techniques to authors of public domain programs.

1: Documentation. Most programs contain either a documentation file, or will give you a brief how-to if you ask for it. The problem is, how do you ask for it? With some programs, no command line will give you the help screen, and others require something obvious like a question mark. If nothing else, include a DOC file telling how to get the help screen.

2: Don't make assumptions about the hardware. Back in the good old days, everybody had an ALTAIR or IMSAI frame, a Tarbell single density disk controller, and eight inch single sided, single density disk drives. A lot of neat programs were written with this or similar hardware in mind. Needless to say, most of that stuff isn't much use today. Nevertheless, the same problem still exists today in a different form, usually with regard to terminal screen handling. In the CP/M world, there seem to be three pseudo-standards: the ADM-3 terminal, the Osborne computer, and the Heath H-19, in about that order. Naturally, screen control codes for any one will be interesting strings of garbage on any of the others. If you are going to write a program that depends on a particular hardware configuration, DOCUMENT that fact. Tell me what your program is expecting. Better yet, add a run-time switch to make it a "plain vanilla" version. Even better, document the codes and locations used so I can change them to suit my machine.

3: How do I compile it? CP/Mers usually give source code with their program. This has several benefits: you can customize the program to your hardware (see # 2); you can fix bugs that crop up; and you can learn about programming by reading the code. The only problem is that most authors forget to tell you what assembler or compiler to use, what options or switches to set, how and with what to link it, etc.

4: User numbers: User numbers are to CP/M what sub-directories are to MS-DOS. CP/M allows user numbers from 0 to 31, although those above 16 are not usually used. Each file on a disk has a user number associated with it. Files

in one user number are not directly accessible from other user number. CP/M 3, as well as some implementations of CP/M 2, will allow files in user 0 which have the SYSTEM attribute set to be accessed from any user number.

User numbers are a feature of CP/M of which little use has been made. Part of the reason for this is that the first versions of CP/M (eg 1.x) didn't have user numbers, and even after version 2 came out, it was some time before large capacity disk systems were within reach of the average user. CP/M 2 had no utilities for handling user numbers, and most CP/M 3s don't either.

Now that everybody has lots of disk space, user numbers can help manage it. But how do we use them? The only package for CP/M that I know of that gives access to user areas is the BDS C compiler. The compiler itself can't handle user areas, but programs compiled under it can. The way they handle it is a real hack job though. Lets suppose I have written a file copying program in BDS C. To copy a file from drive A:, user 5 to drive B:, user 2, I would have to type COPY 5:A:F00 2/B:. What I SHOULD be able to do is COPY A5:F00 B2:, or if A: is that default drive, COPY 5:F00 B2:. In other words, any where I can specify a disk name, I should be able to specify a user number, also.

If you are an assembly language programmer, there is code already available to do just that. SYSLIB by Richard Conn is a collection of routines which will do just about anything you might need done. The SYSLIB routine FNAME will parse a filename from a string of characters, and will return both a disk name and user number if present. All one has to do is call the SETUD routine to set disk and user before accessing the file. With these tools, it is very easy to construct a program which can operate on files anywhere on the disk.

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APPLE LUG NEWS

Apple LUG Officers

<i>President:</i> Arie Koelewyn	1382 Red Leaf Lane, East Lansing	332-6988
<i>Vice-President:</i> Jim DeNike	3882 Okemos Rd., Okemos	349-3714
<i>Secretary:</i> Gary G. Martin	822 W. Willoughby Rd., Lansing	394-0115
<i>Treasurer:</i> Dick Ferris	502 W. Columbia St., Mason	676-9507

PROGRAM THIS MONTH

This months program is there is no program. But this doesn't mean that we are not meeting. We thought that a meeting of a little different than the usual was in order. In honor of the holidays we would like to have a meeting that will give everyone a chance to meet each other instead of just coming in and sitting down and listening to a presentation.

What we are planning is to invite the area Apple Dealers to come and meet us and to show or tell us about what's hot or a good selling item for them and maybe bring a few things to sell even. We sometime mention different dealers at the meetings so this would be a good time to talk with them in person.

We will have coffee and donuts and punch or apple cider at the meeting but please feel free to bring Christmas goodies to share with all of us. We are also planning to have some door prizes (to members in good standing) to give away at the meeting. Please bring your spouses and children along and friends who would be interested in the club. This would be a great time to me all of them. This might also be a good time for those of you who do not come very often to get reacquainted with others who also share your interest in the Apple.

Please note that we are going to move the time ahead 1 week to December 13th since the third week is getting so close to

Christmas. We will also meet in the Auditorium room #105 to give us plenty of space. We will still start at 9:30 a.m. in S. Kedzie Hall. We are all looking forward to seeing you there.

TAKING THE WORK OUT OF APPLEWORKS

By Bob and Karen Crosson
(Reprinted from Michigan
Applegram 4-86)

This month I have a hint for the programmers. Did you know you can enter and correct programs using AppleWorks? With the insert and replace features available it's very easy to enter your programs and correct them as you would a letter to Mom. This can be done whether you're using ProDOS or DOS 3.3.

Just type in your program using line numbers and return after each line. Then go through the document and do any spelling and syntax changes needed. There's usually a lot of spelling errors in my typing.

Put a ProDOS startup disk in the specified drive. I have two drives so I use drive two. Use OA-P (Open Apple-P) keys to print the document. At the bottom PRINT FROM?, BEGINNING is highlighted, so press RETURN. Now displayed is the menu WHERE DO YOU WANT TO PRINT THE FILE? Select A TEXT (ASCII) FILE ON DISK. It now asks for the PATHNAME? at the bottom. Type in the pathname in this format using the slashes

/DISK NAME/PROGRAM NAME. A slash is not needed at the end of the pathname, but it will work if one is added. Just for safety you should also save the program using OAS. This will give you a backup for the ASCII file. Now you can quit AppleWorks.

Boot up the ProDOS disk that you saved the ASCII file on. By cataloging the disk with "CAT" you can verify that the file is on the disk. Use the DASH command to load the program from disk (-PROGRAM NAME). The screen will show a prompt for every line loaded. When the cursor appears the program is loaded into memory.

You can now save and run the program using ProDOS basic commands. Use a new name for the program or you get a FILE TYPE MISMATCH message. After a successful run of the program you can delete the ASCII file from the disk. You still have the word processor file on disk to modify or add to at any time.

For the DOS 3.3 users there is more work involved but it can be converted to run on DOS 3.3. I'm using a IIc and it comes with the SYSTEMS UTILITIES DISK. On a IIe it comes with the ProDOS USER'S DISK. The instructions here are for the SYSTEMS UTILITIES DISK. Refer to your instruction manual or follow the menus on the ProDOS USER'S DISK.

Using the SYSTEMS UTILITIES DISK, from the main menu select #8 ADVANCED OPERATIONS. Then from ADDITIONAL OPERATIONS select #3 CHANGE A DISK'S FORMAT. The next menu asks WHICH CONVERSION DO YOU WANT. Select #3 ProDOS -> DOS 3.3. Follow the instructions for the proper disk locations. I'm using two drives; I put the ProDOS disk in drive 1 and the BLANK disk in drive 2. The conversion program will format the disk, destroying anything on it, then do the conversion.

After the conversion process quit the SYSTEMS UTILITIES and boot up a DOS 3.3 MASTER DISK to load DOS 3.3. Insert the disk

that has the program on it in drive 1. Now use the EXEC command to load the program into memory (EXEC PROGRAM NAME). You can now save and run it using DOS 3.3 commands. Use a different name or you will get the FILE TYPE MISMATCH message.

LAST MONTHS MEETING

Last month we had the new Apple // GS computer from Computer Connection. Unfortunately they were not able to make it in person but we would like to thank them for letting us borrow it to show the Club.

We also had an Amiga brought in to show also as we have had some interest shown with the graphics and such since the // GS came out. The Amiga was brought in by Central Park Computers in Okemos, Mi, who invited us to come and shop there. They will also give a discount to Club members on purchases made. My memory is lousy but I think it is 30%. What you need to do is take your *ENERGY* issue in with you and show them the mailing label. I myself was impressed with the graphic abilities of the Amiga. They also said that the Amiga has the ability to broadcast the sound in stereo but they did not have the audio equipment necessary with them. We would like to thank them also for coming out to show us the Amiga as it helped to make the meeting that much more interesting.

At the meeting we gave away an Apple // GS T-Shirt which was won by Scott Postma. The T-Shirt was courtesy of Apple's User Group Connection, gm.

RENEWALS

By now most of you will have recieved the renewal form for next year. We hope this past year has been worth it to you to renew again. We look forward to seeing you again and hope

to see all of you at the December meeting so we can get to know each other better.

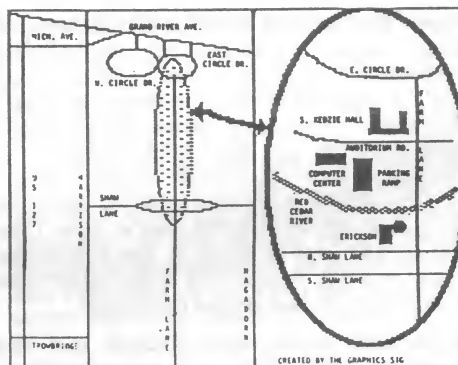
Don't forget that we will be having a drawing for a subscription to Nibble magazine for all members that have renewed by the December 13th meeting. Many of you have already sent your forms back in. Thank you for your prompt replies.

EDUCATION S.I.G.

Chairperson: Judy Haught

The next meeting of the Education S.I.G. will be December 20th at 10:00a.m. Normally we meet at the following location :

Computer CoOp
5127 - C Aurelius Rd.
Lansing, MI 48910
(Corner of Aurelius and Jolly)
Ph: 882-3041



WAPACROSTIC

by Professor Apple

(Reprinted from WAP 7-86)

1	P	2	A	3	L	6	I	5	V		6	I	7	I	8	B	9	M		10	B	11	K		12	D	13	B	14	B	15	E	16	F	17	Q		18	L				
19	A	20	J			21	H	22	O	23	P	24	D	25	S	26	U	27	Q	28	W		29	S	30	I		31	A	32	I	33	Q	34	N	35	W		36	T			
37	P			38	M	39	E	40	O			41	M	42	J	43	K	44	G	45	N	46	U		47	W	48	T	49	A	50	C	51	O	52	O		53	M	54	W		
55	R	56	T	57	T	58	T	59	N			60	H	61	D	62	O	63	O	64	L			65	Q	66	K	67	T	68	C	69	L			70	U	71	K	72	H	73	G
74	T			75	E	76	C	77	W			78	K	79	K	80	L	81	S			82	G			83	J	84	I	85	H	86	K	87	J	88	D			89	B	90	O
91	F	92	M	93	B			94	R	95	A	96	K			97	Q	98	U	99	M	100	V			101	Q	102	S	103	E	104	H	105	O	106	C			107	G	108	Q
109	F			110	J	111	N	112	V	113	C			114	N	115	N	116	F	117	R	118	D	119	F	120	V	121	R	122	J			123	F	124	W	125	K			126	J
127	U	128	M	129	B	130	N			131	V	132	F	133	U			134	R	135	P	136	J	137	Q	138	F	139	N	140	R	141	T			142	G	143	A	144	E		

Definitions

Words

A. Affirm Openly	143	2	31	19	49	95																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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ANSWERS TO LAST MONTH'S WAP ACROSTIC

"It's working! After all these years of effort, there is evidence of greater cooperation between Apple and the User Groups. WAP has benefited in many ways. That means that you, dear reader, have also benefited."

Author: Bernard Urban

Work : WAP Editorial

Source: Washington Apple Pi Journal, April 1986, p3

Words

A. Bo Peep	I. Runways	Q. Deafen
B. Effete	J. Beneath	R. Itself
C. Reive	K. Abate	S. Tssets
D. Naphthalenic	L. Nathaniel	T. Offertory
E. Apathy	M. Worths	U. Referee
F. Rewaken	N. Associate	V. Irving
G. Dogwood	O. Padded	W. Arthur
H. Uranometry	P. Esteems	X. Logia

BEAGLE BROS APPLEWORKS TIPS

by Sue Heyman

The following AppleWorks tips are found in Beagle Bros Macroworks documentation. The information is good enough to quote:

Appleworks' built-in calculator - Here's AppleWorks' biggest secret: and to our knowledge it's never been advertised! Suppose you're using the Word Processor and you want to divide 1234 by 567. Here's what you do:

1. Press Esc Return 5 Return Return X Return. This gets you into AppleWorks' Spreadsheet.

2. Type 1234/567 and press Return. There's your answer on the screen! To get back to your Word Processor file, use open-apple-Q.

3. Getting back to your "calculator" again is easy - use open-apple-Q and select file X.

The Spreadsheet uses slash (/) for divided by, asterisk (*) for multiplication, and Return for equals.

Two-sided disk tip - Copy your AppleWorks Startup disk onto one side of a floppy and your Program disk onto the back. Then you only have to grab one disk when you want to use AppleWorks.

Search and Replace Tip - If you're word processing a document that uses the same word or phrase repeatedly, you can use Search & Replace to make life easier. While you're typing, use a "\" (or any other weird character) instead of the word or phrase. Then occasionally go to the beginning of the document, Press open-apple-R, and replace all your \"s with anything you want.

<Page number> Tip - when writing a long document, we like to force page breaks and type in page numbers as we go. By using the format "<page 3>" we can jump from page to page by simply searching for the character "<".

I Thought I Saved that File... - It's good practice to save a document before you print it, just in case something goes wrong. With AppleWorks, if you save before printing, you are told that you have made changes and should save the file again. Actually you didn't change it; AppleWorks did, by installing page breaks. You really don't need to save again. Of course to play it safe, maybe you should...

One solution is to do an open-apple-K before saving. Then AppleWorks won't have to make changes before printing.

How to Print Just One Page - To print only one Word Processor page, move the cursor to the beginning of your document and do an open-apple-Q PE (Pause Each page). Then put the cursor on the first line you want printed, and do an open-apple-P C (print from Cursor). When your printer finishes a page, press Esc to quit.

Reprinted From Scan, Suncoast Apple Tree

This month we include the latest listing of the Club Library. All of the programs listed are for the COCO II Library. The COCO III Library is not yet available for listing because it is too new (like the machine itself). The special programs specifically for the COCO III will be made available as the programs come in. Don't forget, however, that nearly all programs for the COCO II will run on the COCO III, so if you have the COCO III, ALL sections of the library are available to you.

As always, I'm on the lookout for more programs to add to the library. The more I get, the more I can trade with other clubs. The more I can trade, the more programs available to you. If what you have seems too silly, small or incomplete to you, I'm sure something can be worked out so that little brainstorm of yours can be made into something you'll really want to have shown off! Bring it in! We'll MAKE it worthwhile! See you at the meeting!

Malcolm Cleveland, Librarian

GREATER LANSING COLOR COMPUTER USERS GROUP PROGRAM LIBRARY

SPELL 'N FIX II

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
DICT	TXT	BASIC DATASET	ASCII	SPELLFX2BIN		MACH LANGUAGE	BINARY
SPELLFX2BAS		BASIC PROGRAM	BINARY	SPELLFIXBIN		MACH LANGUAGE	BINARY
SPELLFIXBAS		BASIC PROGRAM	BINARY	MANUAL	TXT	BASIC DATASET	ASCII
COREDICTTXT		BASIC DATASET	ASCII	SAMPLE	TXT	BASIC DATASET	ASCII
BUILD	BAS	BASIC PROGRAM	BINARY	LIST	BAS	BASIC PROGRAM	BINARY
APPEND	BAS	BASIC PROGRAM	BINARY	ADDWORDSBIN		MACH LANGUAGE	BINARY
RUN-THISBAS		BASIC PROGRAM	BINARY	MENU	BAS	BASIC PROGRAM	BINARY

FORTH DISK

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
RUNME!	BAS	BASIC PROGRAM	BINARY	FORTHW	DOC	BASIC DATASET	ASCII
FORTHW2	DOC	BASIC DATASET	ASCII	EDIT	DOC	BASIC DATASET	ASCII
FORTHW	BIN	MACH LANGUAGE	BINARY	EDIT	FTH	BASIC DATASET	ASCII
UTIL	FTH	BASIC DATASET	ASCII	LINE	FTH	BASIC DATASET	ASCII
LINETESTFTH		BASIC DATASET	ASCII	CURVE	FTH	BASIC DATASET	ASCII
PAINT	FTH	BASIC DATASET	ASCII	PCURVE2	FTH	BASIC DATASET	ASCII
DRAW	FTH	BASIC DATASET	ASCII	MENU	BAS	BASIC PROGRAM	BINARY

GREATER LANSING COLOR COMPUTER USERS GROUP PROGRAM LIBRARY

C.C.U.G. ONE

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
CCLIB	BAS,	BASIC PROGRAM,	BINARY	READ	BAS,	BASIC PROGRAM,	BINARY
BRD64K	TXT,	BASIC PROGRAM,	ASCII	CCADRTXTT	TXT,	BASIC PROGRAM,	ASCII
DLAOD	TXT,	BASIC PROGRAM,	ASCII	ESCAPE	TXT,	BASIC PROGRAM,	ASCII
MEMMAP	TXT,	BASIC PROGRAM,	ASCII	MSOFTXT	TXT,	BASIC PROGRAM,	ASCII
PRO	TXT,	BASIC DATASET,	ASCII	RANDOM	BAS,	BASIC PROGRAM,	BINARY
PATCH	TXT,	BASIC PROGRAM,	ASCII				
SUBROU	TXT,	BASIC PROGRAM,	ASCII	VIA	TXT,	BASIC PROGRAM,	ASCII
DISPLAY	BAS,	BASIC PROGRAM,	BINARY	CUGLOG01BIN,		MACH LANGUAGE,	BINARY
CUGLOG02BIN,		MACH LANGUAGE,	BINARY	CCUGMTG2BIN,		MACH LANGUAGE,	BINARY
MENU	BAS,	BASIC PROGRAM,	BINARY				

C.C.U.G. TWO

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
BACKUP	BAS,	BASIC PROGRAM,	ASCII	DIRECT	BAS,	BASIC PROGRAM,	ASCII
DIRLST	BAS,	BASIC PROGRAM,	ASCII	DIRMAP	BAS,	BASIC PROGRAM,	BINARY
DIRSRT	BAS,	BASIC PROGRAM,	ASCII	DISKDISMBAS,		BASIC PROGRAM,	BINARY
DISM	BAS,	BASIC PROGRAM,	BINARY	DSKIND	DAT,	BASIC PROGRAM,	ASCII
DSKOFF	BAS,	BASIC PROGRAM,	ASCII	DSKSCN	BAS,	BASIC PROGRAM,	ASCII
DSKSRT	BAS,	BASIC PROGRAM,	ASCII	DSKUTL	BAS,	BASIC PROGRAM,	ASCII
EDASCI	BAS,	BASIC PROGRAM,	ASCII	EDASCI	DOC,	BASIC PROGRAM,	ASCII
EDITOR	BAS,	BASIC PROGRAM,	ASCII	LOADM	BAS,	BASIC PROGRAM,	ASCII
MDEDIT	BAS,	BASIC PROGRAM,	ASCII	MSTDIR	BAS,	BASIC PROGRAM,	ASCII
PRDIR	BAS,	BASIC PROGRAM,	ASCII	READIR	BAS,	BASIC PROGRAM,	ASCII
RENAME	BAS,	BASIC PROGRAM,	ASCII	SORT	BAS,	BASIC PROGRAM,	ASCII
TPSCAN	BAS,	BASIC PROGRAM,	ASCII	MERGE	BAS,	BASIC PROGRAM,	BINARY
COLORZAPBAS,		BASIC PROGRAM,	BINARY	CCZAP	BIN,	MACH LANGUAGE,	BINARY
CCZAP	SRC,	BASIC DATASET,	ASCII	DISKMAP	BAS,	BASIC PROGRAM,	ASCII
DQS	BAS,	BASIC PROGRAM,	BINARY	MENU	BAS,	BASIC PROGRAM,	BINARY

C.C.U.G. THREE

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
CHECKBK	BAS,	BASIC PROGRAM,	BINARY	CHKBK	BAS,	BASIC PROGRAM,	BINARY
CASHFL	BAS,	BASIC PROGRAM,	BINARY	DIALER	BAS,	BASIC PROGRAM,	ASCII
DIALER	DOC,	BASIC PROGRAM,	ASCII	NDLGEN 1BAS,		BASIC PROGRAM,	BINARY
NDLGEN 1DOC,		BASIC PROGRAM,	ASCII	NDLGEN 2BAS,		BASIC PROGRAM,	BINARY
NDLGEN 2DOC,		BASIC PROGRAM,	ASCII	READDIALBAS,		BASIC PROGRAM,	BINARY
MOD6	BAS,	BASIC PROGRAM,	BINARY	MOD6	DOC,	BASIC PROGRAM,	ASCII
RDFIL	BAS,	BASIC PROGRAM,	BINARY	RDFIL	DOC,	BASIC PROGRAM,	ASCII
COMM04	BAS,	BASIC PROGRAM,	BINARY	FILEGE	OOO,	BASIC PROGRAM,	ASCII
TAPETERMBIN,		MACH LANGUAGE,	BINARY	TELETERMBIN,		MACH LANGUAGE,	BINARY
TTHelp	DAT,	BASIC DATASET,	ASCII	MENU	BAS,	BASIC PROGRAM,	BINARY

GREATER LANSING COLOR COMPUTER USERS GROUP PROGRAM LIBRARY

C.C.U.G. FOUR

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
2001	BIN	MACH LANGUAGE	BINARY	ATEAM	BIN	MACH LANGUAGE	BINARY
CLASSGASBIN		MACH LANGUAGE	BINARY	HILL	BIN	MACH LANGUAGE	BINARY
MONTY	BIN	MACH LANGUAGE	BINARY	POLKA	BIN	MACH LANGUAGE	BINARY
STARTREKBAS		BASIC PROGRAM	BINARY	TREK2	BAS	BASIC PROGRAM	BINARY
BBABY	BAS	BASIC PROGRAM	ASCII	MAZE	BAS	BASIC PROGRAM	BINARY
JAWS	BAS	BASIC PROGRAM	BINARY	ANIMALS	BAS	BASIC PROGRAM	BINARY
ANIMALS	DAT	BASIC DATASET	ASCII	LIFE	BAS	BASIC PROGRAM	ASCII
STATES	BAS	BASIC PROGRAM	ASCII	TYPING	BAS	BASIC PROGRAM	BINARY
CODE16	BAS	BASIC PROGRAM	ASCII	DVORAK	BAS	BASIC PROGRAM	BINARY
LOGBK	BAS	BASIC PROGRAM	ASCII	CHRGEN	BAS	BASIC PROGRAM	ASCII
GRAFIX	BAS	BASIC PROGRAM	ASCII	CBROWN	BAS	BASIC PROGRAM	BINARY
SNOOPY	BAS	BASIC PROGRAM	BINARY	COCO	BAS	BASIC PROGRAM	BINARY
MENU	BAS	BASIC PROGRAM	BINARY				

C.C.U.G. FIVE

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
BASIC40KBAS		BASIC PROGRAM	BINARY	BASIC40KBIN		MACH LANGUAGE	BINARY
BASIC40KTXT		BASIC DATASET	ASCII	BASIC40KSRC		BASIC DATASET	ASCII
HIRAM	BAS	BASIC PROGRAM	BINARY	GOBAS	BAS	BASIC PROGRAM	ASCII
ROM1	BIN	MACH LANGUAGE	BINARY	MEM64K	BAS	BASIC PROGRAM	ASCII
TST64K	BAS	BASIC PROGRAM	ASCII	KURSQR64BAS		BASIC PROGRAM	ASCII
EXTLFT	BAS	BASIC PROGRAM	ASCII	DATGEN	BAS	BASIC PROGRAM	ASCII
DATGEN1	BAS	BASIC PROGRAM	ASCII	CONVRT	DOC	BASIC PROGRAM	ASCII
HADUMP	BAS	BASIC PROGRAM	ASCII	DECODE	BAS	BASIC PROGRAM	ASCII
STRUCBASBAS		BASIC PROGRAM	BINARY	MLADR	BAS	BASIC PROGRAM	BINARY
FIND	BAS	BASIC PROGRAM	BINARY	MENU	BAS	BASIC PROGRAM	BINARY

COMMUNICATIONS DISK

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
CONFIG	BAS	BASIC PROGRAM	ASCII	CONFIG	DES	BASIC DATASET	ASCII
MTERM	BIN	MACH LANGUAGE	BINARY	MTERM	DES	BASIC DATASET	ASCII
MTERM1	BAS	BASIC PROGRAM	ASCII	MTERM1	DES	BASIC DATASET	ASCII
MTERM2	BAS	BASIC PROGRAM	ASCII	MTERM2	DES	BASIC DATASET	ASCII
MTERM3	BAS	BASIC PROGRAM	ASCII	MTERM3	DES	BASIC DATASET	ASCII
MTDOC1	TXT	BASIC DATASET	ASCII	MTDOC1	DES	BASIC DATASET	ASCII
MTDOC2	TXT	BASIC DATASET	ASCII	MTDOC2	DES	BASIC DATASET	ASCII
MTDOC3	TXT	BASIC DATASET	ASCII	MTDOC3	DES	BASIC DATASET	ASCII
NCHG	BAS	BASIC PROGRAM	ASCII	NCHG	DES	BASIC DATASET	ASCII
TAPETERMBIN		MACH LANGUAGE	BINARY	TELETERMBIN		MACH LANGUAGE	BINARY
TTHelp	DAT	BASIC DATASET	ASCII				

GRAPHICOM PICTURE DISK

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
DISPLAY	BAS,	BASIC DATASET,	ASCII	APPLE	BIN,	MACH LANGUAGE,	BINARY
CGIRL1	BIN,	MACH LANGUAGE,	BINARY	CGIRL2	BIN,	MACH LANGUAGE,	BINARY
CHICFO	BIN,	MACH LANGUAGE,	BINARY	COCOBB	BIN,	MACH LANGUAGE,	BINARY
CRYSTA	BIN,	MACH LANGUAGE,	BINARY	DIGIFO	BIN,	MACH LANGUAGE,	BINARY
IC	BIN,	MACH LANGUAGE,	BINARY	KTZFNT	BIN,	MACH LANGUAGE,	BINARY
MDCHAR	BIN,	MACH LANGUAGE,	BINARY	OLIVER	BIN,	MACH LANGUAGE,	BINARY
PLAYBL	BIN,	MACH LANGUAGE,	BINARY	SAM	BIN,	MACH LANGUAGE,	BINARY
SPOOK	BIN,	MACH LANGUAGE,	BINARY	SUMNIT	BIN,	MACH LANGUAGE,	BINARY
TITLE	BIN,	MACH LANGUAGE,	BINARY	TREK	BIN,	MACH LANGUAGE,	BINARY
VIZI	BIN,	MACH LANGUAGE,	BINARY	COWBOY	BIN,	MACH LANGUAGE,	BINARY
MENU	BAS,	BASIC PROGRAM,	BINARY				

NEW DISK - ONE

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
DVORCCUGBIN,		MACH LANGUAGE,	BINARY	DVORAK	BAS,	BASIC PROGRAM,	BINARY
DVO	BAS,	BASIC PROGRAM,	ASCII	MENU	BAS,	BASIC PROGRAM,	BINARY
16LNCARDBAS,		BASIC PROGRAM,	BINARY	18LNCARDBAS,		BASIC PROGRAM,	BINARY
20LNCARDBAS,		BASIC PROGRAM,	BINARY	LABEL5LNBAS,		BASIC PROGRAM,	BINARY
LABEL6LNBAS,		BASIC PROGRAM,	BINARY	LABEL7LNBAS,		BASIC PROGRAM,	BINARY
LABEL8LNBAS,		BASIC PROGRAM,	BINARY	DISPLAY	BAS,	BASIC PROGRAM,	BINARY

NEW DISK - TWO

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
DISKCAT	BAS,	BASIC PROGRAM,	ASCII	SUPERBACBIN,		MACH LANGUAGE,	BINARY
STARWARSMUS,		MACH LANGUAGE,	BINARY	PHANTOM	MUS,	MACH LANGUAGE,	BINARY
CANON	MUS,	MACH LANGUAGE,	BINARY	SYM5	MUS,	MACH LANGUAGE,	BINARY
KYRIE	MUS,	MACH LANGUAGE,	BINARY	ORCHPLAY5IN,		MACH LANGUAGE,	BINARY
ORCHDOC	DAT,	BASIC DATASET,	ASCII	STELMO	ORC,	MACH LANGUAGE,	BINARY
DUST	BIN,	MACH LANGUAGE,	BINARY	DISK	BAS,	BASIC PROGRAM,	BINARY
CHRISTIEMAC,		MACH LANGUAGE,	BINARY	CATALOG2DAT,		BASIC DATASET,	ASCII
MACCONVTBIN,		MACH LANGUAGE,	BINARY	PLAY	BIN,	MACH LANGUAGE,	BINARY
BLUES	MAC,	MACH LANGUAGE,	BINARY				

OS-9 DISK

NAME	EXT	FILE TYPE	FORMAT	NAME	EXT	FILE TYPE	FORMAT
1DISKOS9BAS,		BASIC PROGRAM,	ASCII	LOAD9	BAS,	BASIC PROGRAM,	ASCII
MODRELOCBAS,		BASIC PROGRAM,	ASCII	PCLEAR0	BAS,	BASIC PROGRAM,	ASCII
CCZAP	BIN,	MACH LANGUAGE,	BINARY	MENU	BAS,	BASIC PROGRAM,	BINARY



A DAWG's View
by
DATA DAWG

You know how the major PC magazines are saying most everybody doesn't need the speed of the new 80386 chip? Well don't believe them for a second! Since I've had mine this column gets typed in about 2 milliseconds faster and prints at least 3 seconds faster. That's very important to a reporter with such hard to make deadlines and demands that ENERGY magazine has. If you think I'm wagging your tail then you try and write a monthly column for this publication and chase cars all at the same time.

Congratulations goes out to the folks at MSU for the wonderful computer show they put on in early November. It was cute with the balloons and buttons, but I didn't think it was funny when some five year old tied a balloon to my tail. I knew right then that I should go to these events in a disguise. This is fair warning for those who try to find out my identity! I might even resort to wearing shoes so as not to leave paw tracks in the snow.

While baying at the moon the other night (which wasn't all that easy since it was a cloudy night), the Dawg couldn't help but wonder what amazing products are going to come out of the COMDEX show. Are you curious too? Do inquiring minds want to know? Please be nodding you noggin in approval, because I'm going to dial up on my modem a flight reservation for the COMDEX show (spring of 87 of course) and cover it for the good and loyal readers of ENERGY. Anything is better than spending another chilly night in the Dawg house. (Note to ENERGY editors ... if Robin Leach calls for an appointment, tell him the house is free to film for his show.)

Why do most pseudo experts think that all the great technical development is going on at either end of the country right now? Sure California has the valley and the East Coast has Route 128 but the hot-bed of development right now for micros is the Okemos-Haslett-Frandor triangle. This secret product will be of major importance someday to all who hunt and peck on a keyboard for a living. The first glimpse of it came when I sniffed into some of the trash being hauled away from the shopping center in Frandor. D.D. at first thought what he stumbled upon was a hoax, but you should be the final judge on this product. It is the long awaited PDOS ... otherwise know as Pun-DOS. The major virtue being that it will run on any machine ever built now or in the future. Hard to believe huh? Well the great CP/M, MS-DOS, APPLE DOS, OS9, FINDER, and TRSDOS minds have collaborated on a simple solution to the great curse of micros, namely compatibility among systems and software. PDOS features the all powerful 'SOLVE-IT' command and Data

Dawg has personally seen this command react exactly the same on a variety of Lansing based microcomputers. Chuckles always arise when the unsuspecting user attempts to set the date using the seemingly simple 'DATE' command under PDOS. At the prompt (?) the user types 'date' and PDOS responds 'Go ahead make my date!'. What is in store for the 'TIME' command? The user types 'time' and PDOS responds 'Does anybody really know what time it is?'. While working with PDOS, it becomes obvious to the user that some sort of form of AI was used to produce such an amazing piece of code. (For those unfamiliar with 'AI' it stands for 'Alien Intellect', since there is nothing like it in the mid-Michigan area) In weeks to come, the Dawg will continue to reveal the hard-to-justify let alone believable features of PDOS. Remember you read it here first in ENERGY! Take that S. Katt!!!

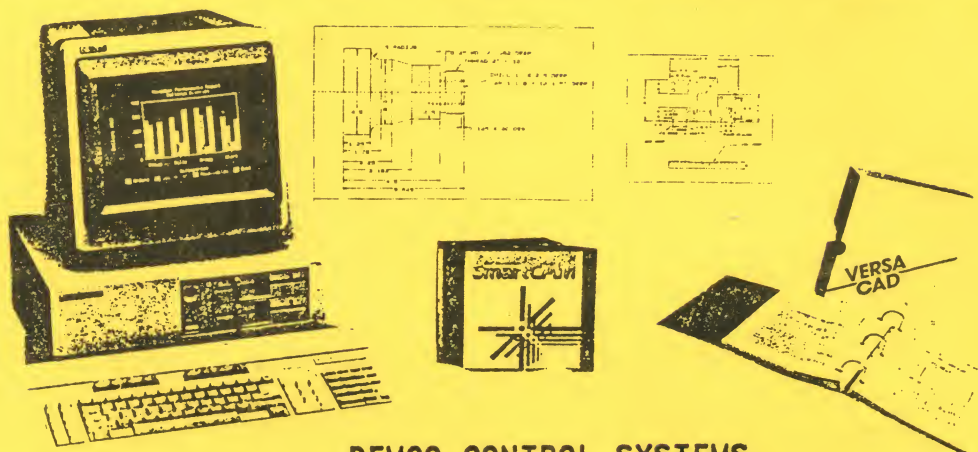
Since this is just about the end of my column. I would like to take time to find out just what the reading public wants the Dawg to be snooping around for. Should I be a dog that chases down any story on micros? Should I be a dog that chases down any story on micro people? Should I be a dog that is a name dropper just like the 'others' or what? If the Dawg doesn't get some response, I can just go ahead and accept the bit part on FRESNO. The money would buy a lot of biscuits and Perrier. Give the Dawg your thoughts by sending in letters to the editor of ENERGY, but of course address them to Data Dawg and make sure you mark them 'Confidential'. The readers are also encouraged to leave little missives to the Dawg on the local RBB's of all kinds (I'm not partial to any of them). Come mid-Michigan share your opinions of the subject. Who knows maybe someday the Dawg will speak in front of a joint club meeting that could include all of the clubs in town.

(*Editor's note: If you would like to get a glimpse of the Dawg, be sure to look for the compu-canine snooper during the Super Bowl commercials. Data Dawg always attends those splashy type of events and this coming one will be no exception. DD got a hot tip that there will be commercials used during the game that will reveal the new machines from both APPLE and Big Blue so he will be there to cover the real truth. Note that is 'cover' not 'cover up'! If you watch closely you might be able to spot the furry four-legged reporter on the job as he investigates another 'gate' of sorts ... little compu-humor there!

Time to go and shop for that elusive Christmas turkey. I sure hope I get one this year and don't have to eat gruel and span like last year. Maybe one of my loyal readers could invite the Dawg over for dinner and keep my identity a secret? At least my house is lined with papers this year. MERRY CHRISTMAS everybody and thank you for letting the Dawg bark his way into your lives!

Arf! Bark! Woof!

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